

Make TPM Lean and Digital

3 Day Training Workshop

In house course

With hands on practical activities on the factory shop floor.



This training workshop includes **practical exercises on the production shop floor** to provide a "**how to guide**" to using Total Productive Manufacturing (TPM) and Lean Thinking principles to deliver gains from Digitisation and Smart Technology.

"Transform your manufacturing processes with the perfect blend of TPM and Lean improvement techniques using cutting-edge digital tools."

- **For Beginners:** Learn the basics of TPM and Lean Thinking and how readily available digital platforms such as Microsoft Teams and SharePoint can accelerate the delivery of gains by making use of trapped and stranded data from SCADA and traditional IT systems.
- **For Advanced Participants:** Discover how to blend digital strategies with TPM and Lean Roadmaps to take your existing Digitised Manufacturing Processes to the next level and manage future technology selection to enhance the end to end Plan, Source, Make and Delivery process.

The course content set out practical steps to:

- **Enhance Collaboration:** Use digital tools to connect functions, improve feedback and empower your organisation.
- **Engage front line teams** with targeted analysis to gain insights into causal factors and rapidly test out improvement ideas.
- **Sustain Systematic Improvements:** by using real-time feedback to refine and reinforce new ways of working, accelerating capability development and building skills for the future.

Over the course of three days, you'll:

- **Work in Small Teams:** Collaborate with peers in focused groups to tackle real-world problems and implement TPM and Lean principles in a live production environment.
- **Discover where Smart Technology and Digital tools** can make your operations more effective and flexible to market changes.
- **Learn how to engage front-line teams**, ensuring their active participation with the Digitised Ecosystem to ratchet up effectiveness.
- **Be able to develop practical plans** to transfer lessons learned back to the workplace

Register today to start your journey to Make TPM Lean and Digital.

Who should attend

Manufacturing improvement champions, Plant Managers, Team Leaders, Production supervisors, Maintenance Managers, Technicians, Engineers, and other Manufacturing Improvement Leaders.

What you will learn

- Learn what it takes to drive Total Productive Manufacturing (TPM) and Lean Thinking using our desktop OEE simulation.
- Know how real time data analysis can improve insights into causal factors, speed up problem resolution to optimise the end to end plan, source, make deliver manufacturing process.
- Understand how Connected Worker and real time Dynamic Scheduling can deliver higher levels of reliability, accelerate the pace of continuous improvement and adapt to deliver gains from evolving technologies.
- Be able to develop a realistic and achievable plan to transfer lessons learned back to the workplace.

Workshop Agenda

Day 1:

- **Make TPM Lean and Digital Overview**
- Introduction to TPM and Lean Thinking
 - OEE (Overall Equipment Effectiveness) desk top simulation exercise
- Understanding the Smart Technology landscape and where the gains come from for:
 - Physical hardware including Cobots, 3D printing, Automation.
 - Virtual Systems including Machine Learning, AI and real time dashboards.
- The connected worker and systematic improvement:
 - Loss Tree analysis/cost modelling,
 - Dynamic Scheduling,
 - Digital Twin glide path development.

Transfer to the production shop floor to perform a comprehensive assessment of manufacturing processes. Work in small teams following a structured workbook with briefing notes covering:

Understanding the Asset

- Transactional Value Stream Map, Asset Description and Criticality Assessment to collate operational knowledge re causal factors, performance drivers and reliability pain point
- Definition of real time notification flags to sustain basic conditions and systematic improvement.
- Tracking true OEE levels and setting realistic and achievable 12 month improvement targets.

Day 2: Analysing Plant and Workflow Effectiveness Drivers

Delegates continue to work in small Teams on the shop floor covering:

- **Condition Appraisal and Refurbishment Plan.** This includes setting standards for basic conditions and the identification of accelerated wear.
- **Development of a PFEA (Plan for every asset)** covering Best practice asset care and the integration of asset care with operating best practice.

- **Standardisation** covering:
 - Work categorisation to reduce the risk of human error and enhance best practice compliance,
 - Dynamic Scheduling and skill matching,
 - Workplace organisation standards including local access to data.
- **Learning plans**
 - To resolve skill gaps,
 - Over the shoulder support,
 - Team based capability development.
- **The Connected Worker**
 - Creating a Digital Backbone,
 - Data Management,
 - Identification of analysis priorities, pain points and technology selection.

Day 3: Creating Digital Centres of Excellence

- **Digital Ecosystem: Sustaining Basic Conditions**
 - Systemise "Normal Conditions" using condition based "Notifications" and trouble shooting algorithms plus over the shoulder support,
 - Capture of lessons learned, sharing insights and accelerated scale-up.
- **Digital Ecosystem: Systematic Improvement**
 - Data analytics as part of PDCA cycle to interpret data patterns, trends, and causal factors to Prevent unplanned downtime, extend component lifespan, optimise processes.
- Mini project feedback session
- **Digital Ecosystem: Modelling and App Development**
 - Plan, Source, Make and Deliver process improvement.
 - "Use Case" models and microservice applications to automate routines and support decision making,
 - "Improvement Leader Networks" to engage the organisation with adopting smart technology.
- **Developing Action Plans**
 - Transferring lessons learned on the course to the workplace.

Workshop Leader

The workshop will be led by Dennis McCarthy.

Dennis has supported TPM, Lean Thinking and Continuous improvement programmes ranging in size from small single site applications to company-wide multi-site transformation programmes in Europe, USA, India and China. This includes support for well respected and award winning organisations such as 3M, Heineken, Pirelli and Rolls Royce. He has pioneered the use of Digitisation to accelerate the pace of improvement and the use of TPM and Lean roadmaps to guide the delivery of the gains from smart technology and digitisation.



Make TPM Lean and Digital

Date/Venue

In house

Timing

Day 1: 0900 to 17.00

Day 2: 0830 to 1700

Day 3: 0900 to 16.00

Workshop Fees: £4500 + VAT for up to 10 delegates. £5000+ VAT for up to 15 delegates

Workshop fees include course leader fees plus printed material

Full payment is required prior to the workshop date.

Complete and return this booking form to
**DAK Consulting, Chiltern House,
 45 Station Road, Henley on Thames,
 RG9 1AT**

Or contact Karen Aston on
 Tel: +44(0)1491 845504
 Karen.Aston@dakconsulting.co.uk

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